

CLAIMS

1. Corrugated product (10), comprising at least one first substantially plane sheet (11) and at least one second sheet (12) arranged in wave shape, wherein the first sheet is joined with the second sheet in joining areas (15), forming a framework shape having the joining areas arranged at tops (14) of the second sheet, *characterized* in that at least the first substantially plane sheet (11) is arranged with a regular elevation (16) between adjacent joining areas (15).
2. Corrugated product according to claim 1, wherein the elevation is formed as an arc of a sector of a circle.
3. Corrugated product according to claim 1, wherein the second sheet (12) is formed with a thinner portion (18) in connection with the joining areas (15).
4. Corrugated product according to claim 3, wherein the thinner portion (18) is arranged with a length and thickness that in combination with the length, thickness and shape of remaining portions of the second sheet results in a substantially similar consumption of material and/or cross section area of the second sheet as of a corresponding plane sheet without thinner portions of the same width.
5. Corrugated product according to claim 3, wherein the joining areas between the first sheet and the second sheet include the whole thinner portion (18) and a thicker portion of the second sheet (12) adjacent the thinner portion.
6. Corrugated product according to claim 1, wherein at least the second sheet is formed in a thermoplastic material.

7. Corrugated product according to claim 6, wherein the second sheet is formed in a material comprising a thermoplastic.
 8. Corrugated product according to claim 7, wherein the second sheet is formed in a material comprising a polyolefine or a compound thereof.
 9. Corrugated product according to claim 6, wherein the material comprises a filler of chalk.
- 10 10. Corrugated product according to claim 6, wherein the material comprises a filler of fibre.
11. Corrugated product according to claim 6, wherein at least the first sheet and the second sheet is joined by welding.
- 15 12. Corrugated product according to claim 1, wherein the second sheet arranged in wave shape comprises straight portions extending between the tops.
- 20 13. Corrugated product according to claim 1, wherein a substantially plane third sheet is connected to the wave shaped second sheet in joining areas, so that the wave shaped second sheet is arranged between the substantially plane sheets.
- 25 14. Corrugated product according to claim 13, wherein the third sheet is arranged with a regular elevation between adjacent joining areas.
- 30 15. Corrugated product according to claim 1, wherein a substantially plane third sheet is arranged opposite the first substantially plane sheet with an intermediate and wave shaped fourth sheet arranged with tops joined with tops of the second wave shaped sheet.

16. Corrugated product according to claim 1, wherein the product is formed in paper or cellulose materials.